

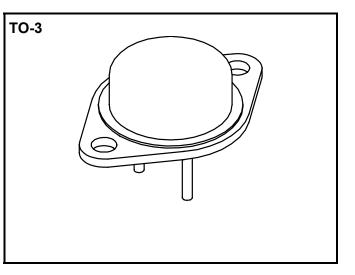
SSR4010/3

Designer's Data Sheet

FEATURES:

- PIV: 100 Volts
- Low Forward Voltage Drop
- Low Reverse Leakage
- Hermetically Sealed Package
- Guard Ring for Overvoltage Protection
- Available in Isolated and Non-isolated versions
- Eutectic Die Attach
- 175°C Operating Junction Temperature
- TX, TXV, and Space Level Screening Available

40 AMPS
100 VOLTS
SCHOTTKY
RECTIFIER



MAXIMUM RATINGS		Symbol	Value	Units
Peak Repetitive Reverse Voltage and DC Blocking Voltage	SSR4010/3	V _{RRM} V _{RWM} V _R	100	Volts
Average Rectified Forward Current $\frac{1}{}$ (Resistive Load, 60 Hz, Sine Wave, T _A =25°C)		Io	40	Amps
Peak Surge Current $\frac{1}{}$ (8.3 ms Pulse, Half Sine Wave Superimposed on I _O , allow junction to reach equilibrium between pulses, T _A =25 °C)		I _{FSM}	400	Amps
Operating and Storage Temperature		T _{OP} & Tstg	-65 to +175	°C
Maximum Thermal Resistance ^{1/} Junction to Case		R _{θJC}	0.6	°C/W

Notes:

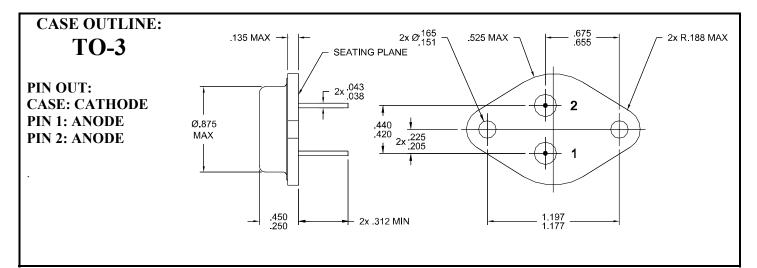
<u>1</u>/ Both Legs Tied Together.

NOTE: All specifications are subject to change without notification. SCD's for these devices should be reviewed by SSDI prior to release.	DATA SHEET #: RS0103C	DOC
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SSR4010/3

ELECTRICAL CHARACTERISTICS		Symbol	Max	Unit
Instantaneous Forward Voltage Drop $(T_A = 25^{\circ}C, Pulse)$	$I_F = 10 \text{ Amps}$ $I_F = 20 \text{ Amps}$ $I_F = 40 \text{ Amps}$	$V_{F1} V_{F2} V_{F3}$	0.7 0.77 0.90	Volts
Instantaneous Forward Voltage Drop $(I_F = 20 \text{ Amps}, T_A = -55 \text{°C}, \text{Pulse})$		V_{F4}	0.89	Volts
Reverse Leakage Current (Rated V_R , $T_A = 25$ °C, Pulse)		I _{R1}	400	μA
Reverse Leakage Current (Rated V_R , $T_A = 100^{\circ}$ C, Pulse)		I _{R2}	20	mA
Junction Capacitance ($V_R = 10 V_{DC}, T_A = 25^{\circ}C, f = 1 MHz$)		CJ	1,600	pF



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